

Application No. 10/088,025

c.) Amendments to the Claims.

Please amend claims 1-17 as follows:

Claim 1. (currently amended) A Transformed transformed plant and its or the progeny of said transformed plant, characterized in that its wherein a regulatory sequence and/or or a gene copy number of an ATP/ADP translator gene of said transformed plant is are modified in such a way that it exhibits one or more amino acids simultaneously in modified amounts in comparison with a corresponding untransformed plant, and said modification comprises exhibiting one or more amino acids simultaneously and in modified amounts.

Claim 2. (currently amended) The Transformed transformed plant and its or the progeny of said transformed plant of according to claim 1, characterized in that it exhibits which has an increased transport capacity for ATP into the chloroplastic membrane of said transformed plant.

Claim 3. (currently amended) The Transformed transformed plant and its or the progeny of said transformed plant of according to claim 1 or claim 2, characterized in that it which exhibits predominantly one or more essential amino acid(s) acids in modified amounts.

Claim 4. (currently amended) The Transformed transformed plant and its or the progeny of said transformed plant of according to claim 1, characterized in that it which exhibits one or more essential amino acid(s) acids whose content is in increased amounts over that of the untransformed plant.

Claim 5. (currently amended) The Transformed transformed plant and its or the progeny of said transformed plant of according to claim 1, characterized in that it which is a useful plant.

Claim 6. (currently amended) An ATP/ADP translocator gene for use in a plant according to of the transformed plant of claim 1, with comprising an *Arabidopsis thaliana* nucleotide sequence (EMBL Accession No. Z49227) encoding the amino acid sequence shown in Fig. 1 (of SEQ ID NO 1).

Claim 7. (currently amended) The ATP/ADP translocator gene for use in a plant according to of claim 6, with further comprising a naturally found, chemically synthesized, modified, or artificially generated nucleotide sequence that encodes an ATP/ADP translocator gene with essentially the same action or with heterologous nucleotide sequences encoding the ATP/ADP translocator or allelic variations or isoforms thereof or with mixtures thereof.

Claim 8. (currently amended) The ATP/ADP translocator gene according to claims 6 or 7 of claim 6, with comprising one or more operably linked, regulatory nucleotide sequences.

Claim 9. (currently amended) The ATP/ADP translocator gene according to of claim 6, with comprising an upstream operably linked promoter.

Claim 10. (currently amended) Gene A gene structure comprising an the ATP/ADP translocator gene according to of claim 6 and regulatory sequences a regulatory sequence linked operably to this said gene structure.

Claim 11. (currently amended) Vector A vector comprising an the ATP/ADP translocator gene according to of claim 6.

Claim 12. (currently amended) The vector of Vector according to claim 11, further comprising additional one or more regulatory nucleotide sequences, preferably from the group of the promoters, terminators or translation enhancers, and nucleotide sequences for the replication in a suitable host cell or for integration into its genome.

Claim 13. (currently amended) Seeds A seed of the transformed plant according to or the progeny of said transformed plant of claim 1.

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Claim 14. (currently amended) ~~Tissues or cells or material~~ A plant cell or tissue capable of propagation from the transformed plant ~~according to~~ of claim 1.

Claim 15. (currently amended) A method ~~Method~~ of generating a plant with an increased amino acid content, ~~characterized in that an~~ comprising transforming said plant with the ATP/ADP translocator gene ~~according to~~ of claim 6 ~~is transferred by recombinant methods.~~

Claim 16. (currently amended) ~~Use of the~~ The transformed plant ~~according to~~ of claim 1, which is a as useful plant or fodder plant.

Claim 17. (currently amended) ~~Use of the transformed plants according to claim 1 or of tissue or cells thereof or of extracts thereof in sectors or agriculture, the feedstuff industry or in the health sector~~ The ATP/ADP translocator gene of claim 6, further comprising a heterologous nucleotide sequence that encodes an ATP/ADP translocator gene or an allelic variation or isoform thereof.

Please add new claim 18 as follows:

Claim 18. (new) The vector of claim 12, wherein the one or more regulatory nucleotide sequences are selected from the group consisting of promoters, terminators, translation enhancers, nucleotide sequences for replication in a suitable host cell, nucleotide sequences for integration into a genome, and combinations thereof.